FIG. 1

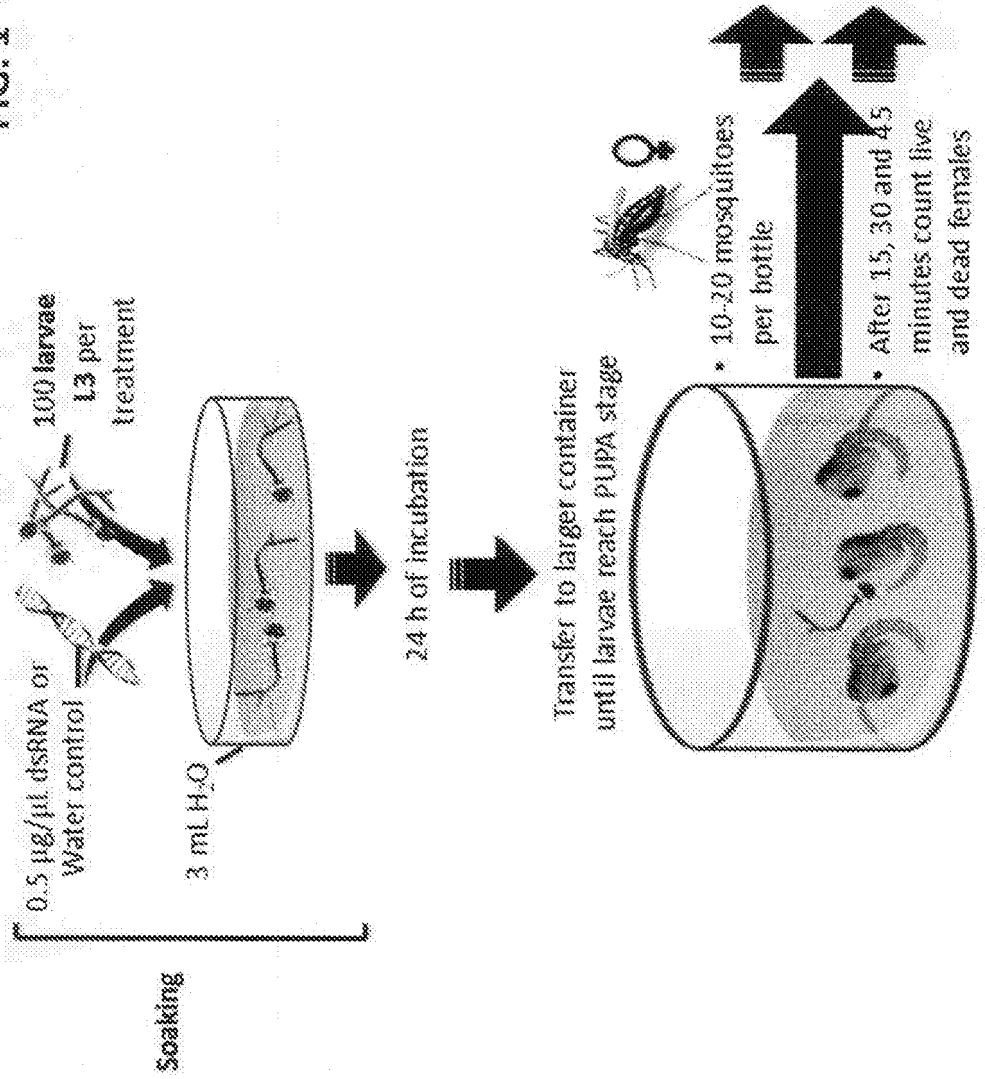
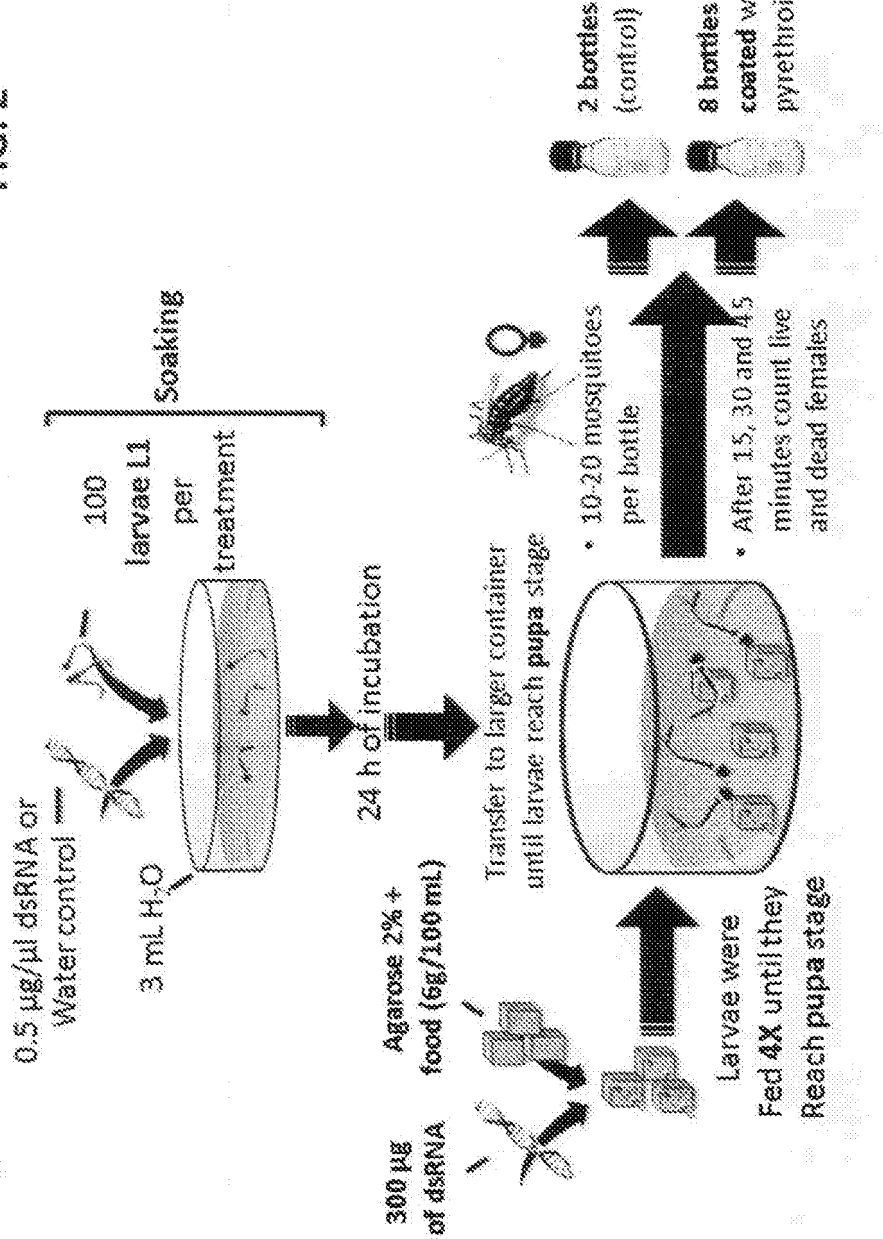
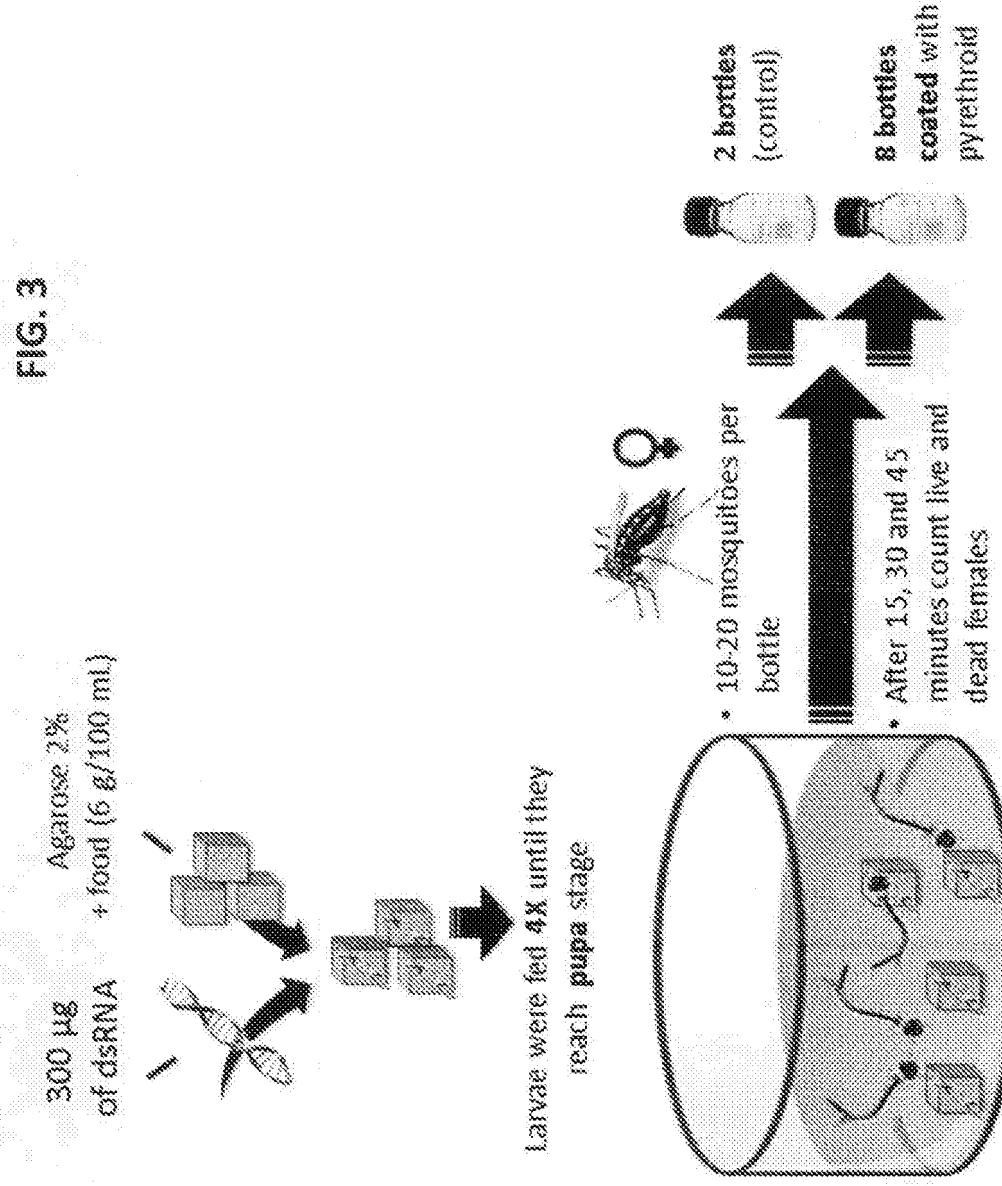

Soaking
0.5 µg/µl dsRNA or
Water control
100 larvae
L3 per
treatment
3 ml H2O
24 h of incubation
Transfer to larger container
until larvae reach PUPA stage
• 10-20 mosquitoes
per bottle
• After 15, 30 and 45
minutes count live
and dead females
2 bottles
(control)
8 bottles
coated with
pyrethroid

FIG. 2



Flowchart 2

FIG. 3


300 µg
of dsRNA
Agarose 2%
+ food (6 g/100 ml)
Larvae were fed 4X until they
reach pupa stage
• 10-20 mosquitoes per
bottle
• After 15, 30 and 45
minutes count live and
dead females
2 bottles
(control)
8 bottles
coated with
pyrethroid

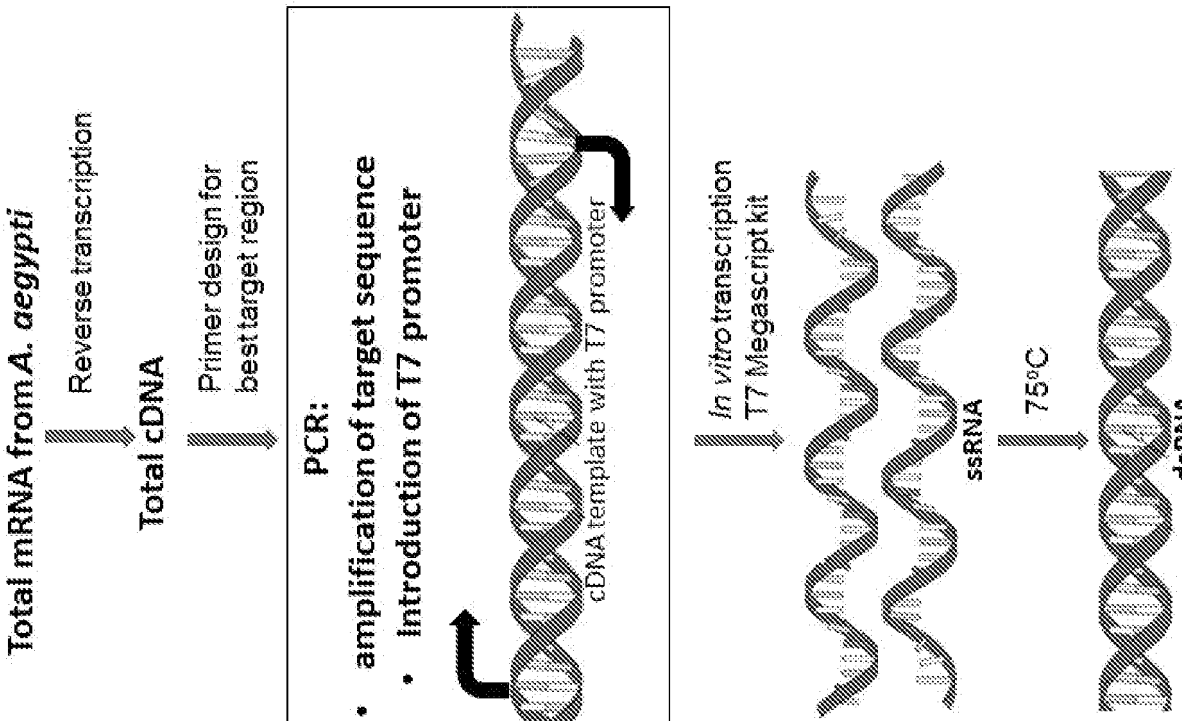


FIG. 4

Flowchart 4

FIG. 5A

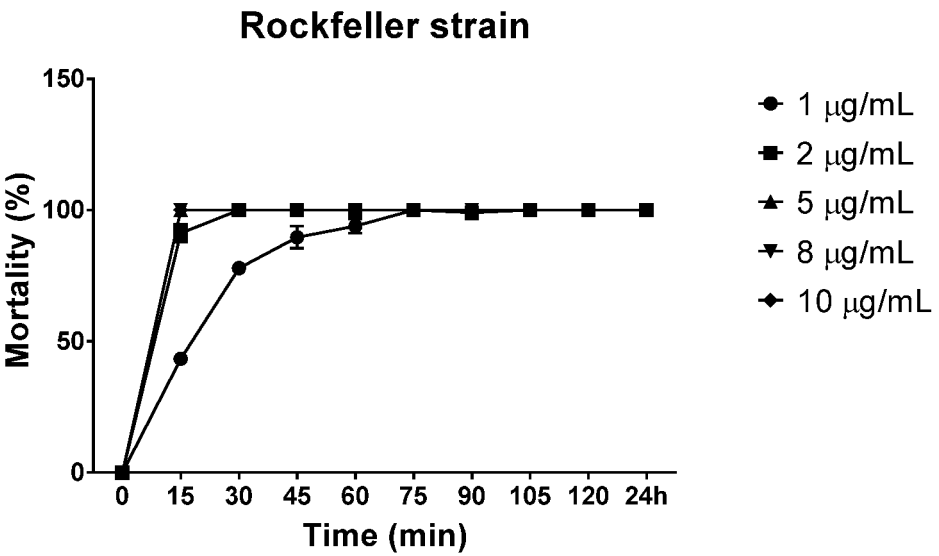


FIG. 5B

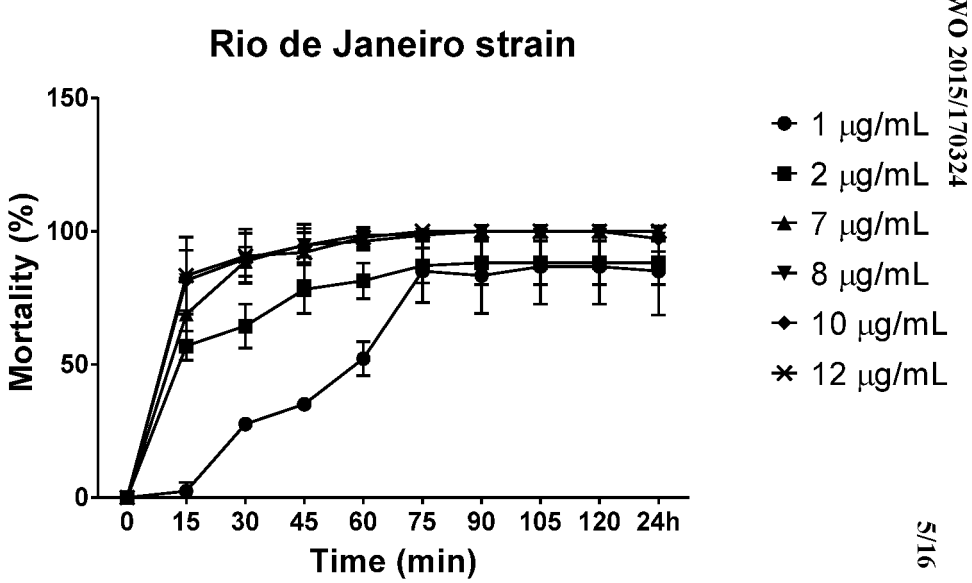


FIG. 5C

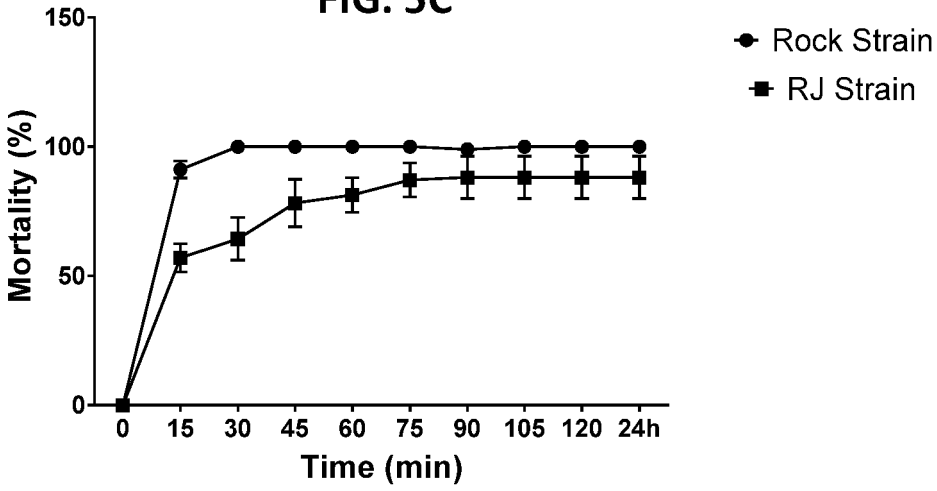


FIG. 6A

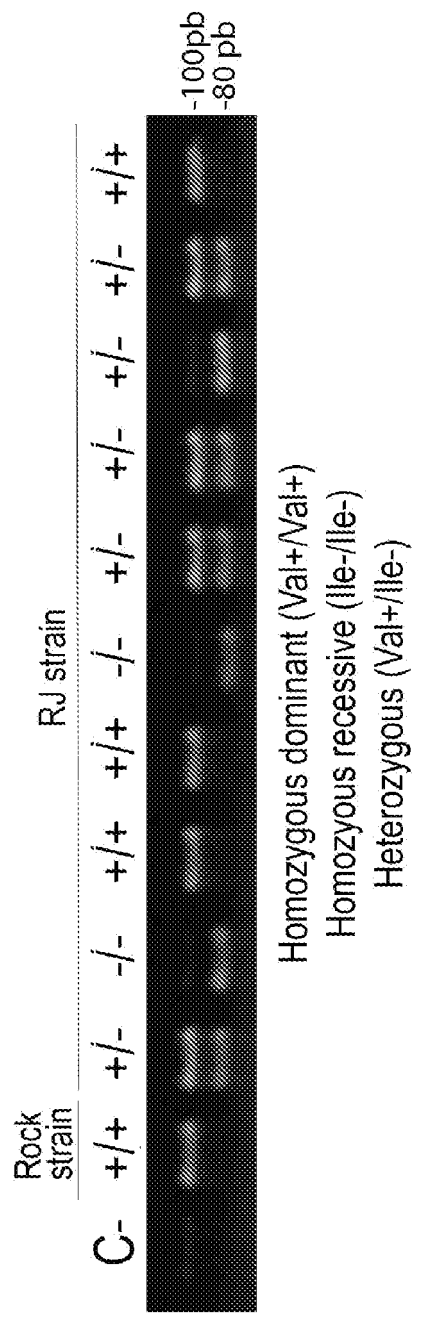

A
Rock strain
RJ strain
C- +/+ +/- -/- +/+ +/+ -/- +/- +/- +/- +/+
Mutation #1016
-100pb
-80 pb
Homozygous dominant (Val+/Val+)
Homozyous recessive (Ile-/Ile-)
Heterozygous (Val+/Ile-)

FIG. 6B

B
Rock strain
RJ strain
+/+ +/+ +/+ +/+ -/- +/- +/- ? +/+ +/+ +/- +/- +/- C-
Mutation #1534
-110 pb
-90 pb
Homozygous dominant (Phe+/Phe+)
Homozygous recessive (Cys-/Cys-)
Heterozygous (Phe+/Cys-)

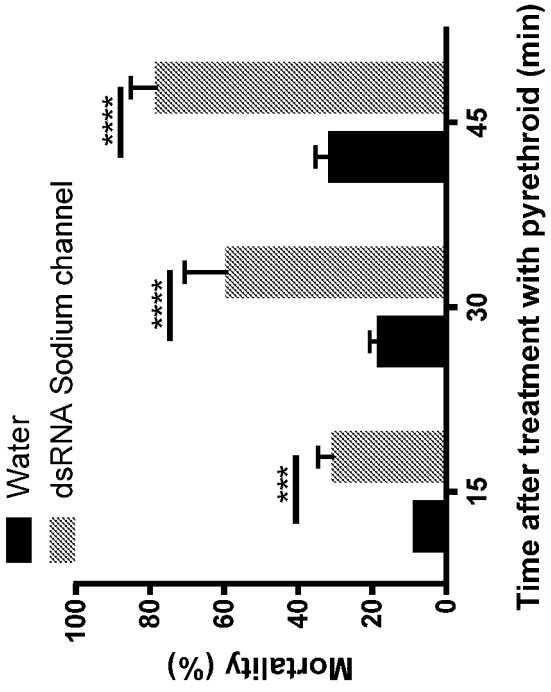


FIG. 7A

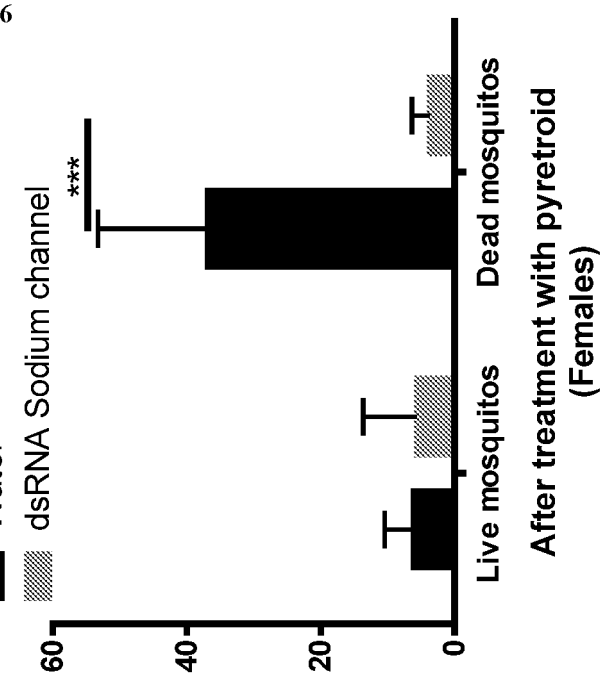


FIG. 7C

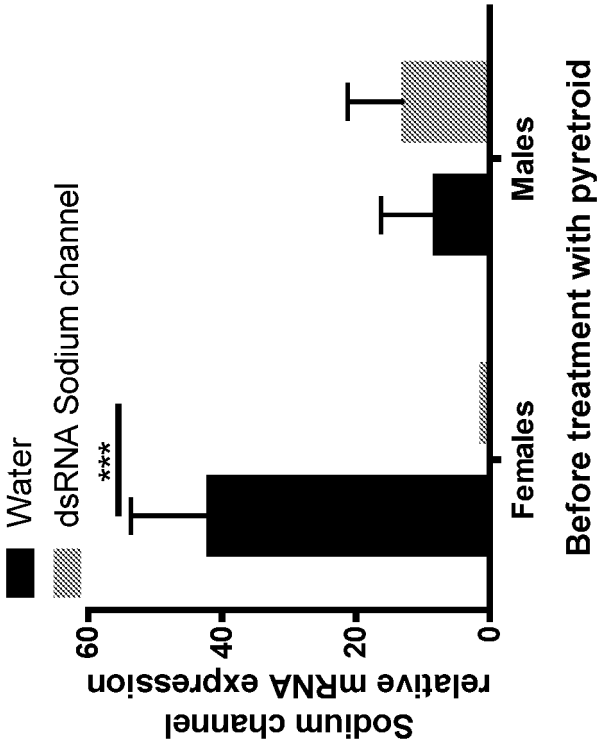


FIG. 7B

FIG. 8

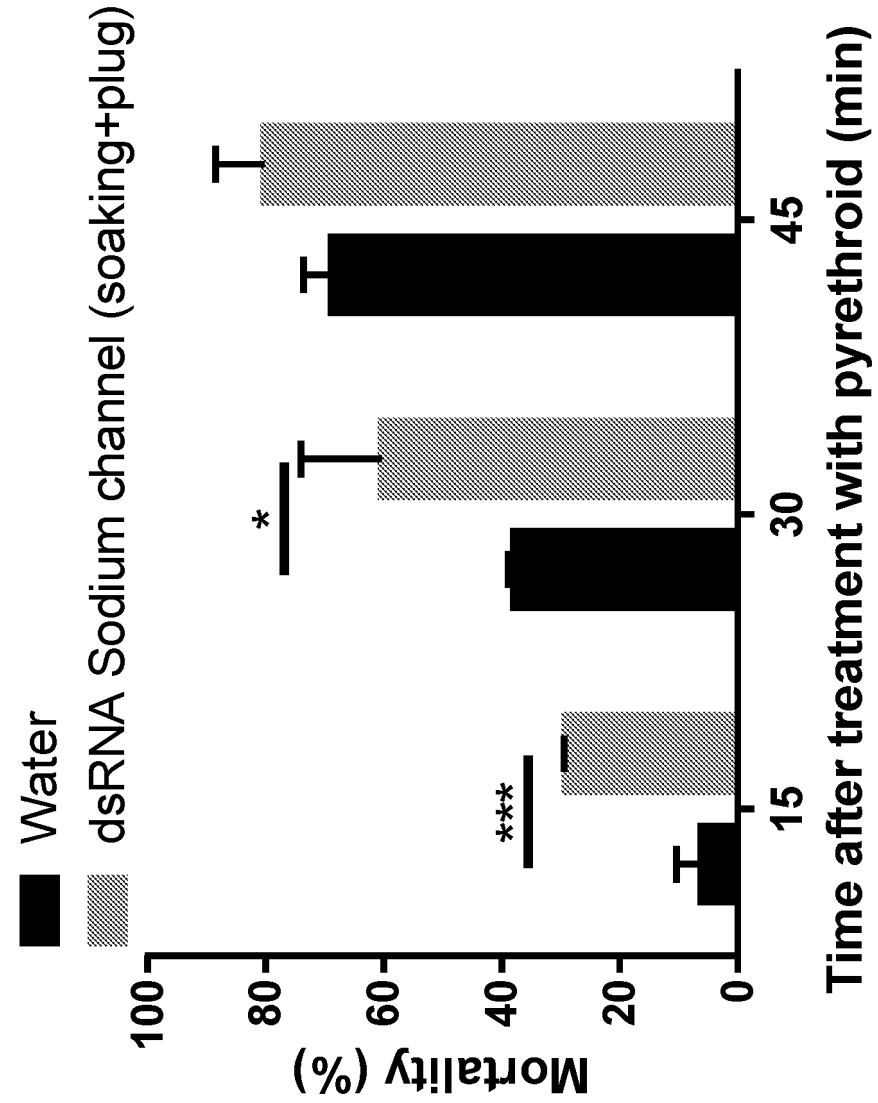

Water
dsRNA Sodium channel (soaking+plug)
Mortality (%)
100
80
60
40
20
0
***
*
15
30
45
Time after treatment with pyrethroid (min)

FIG. 9

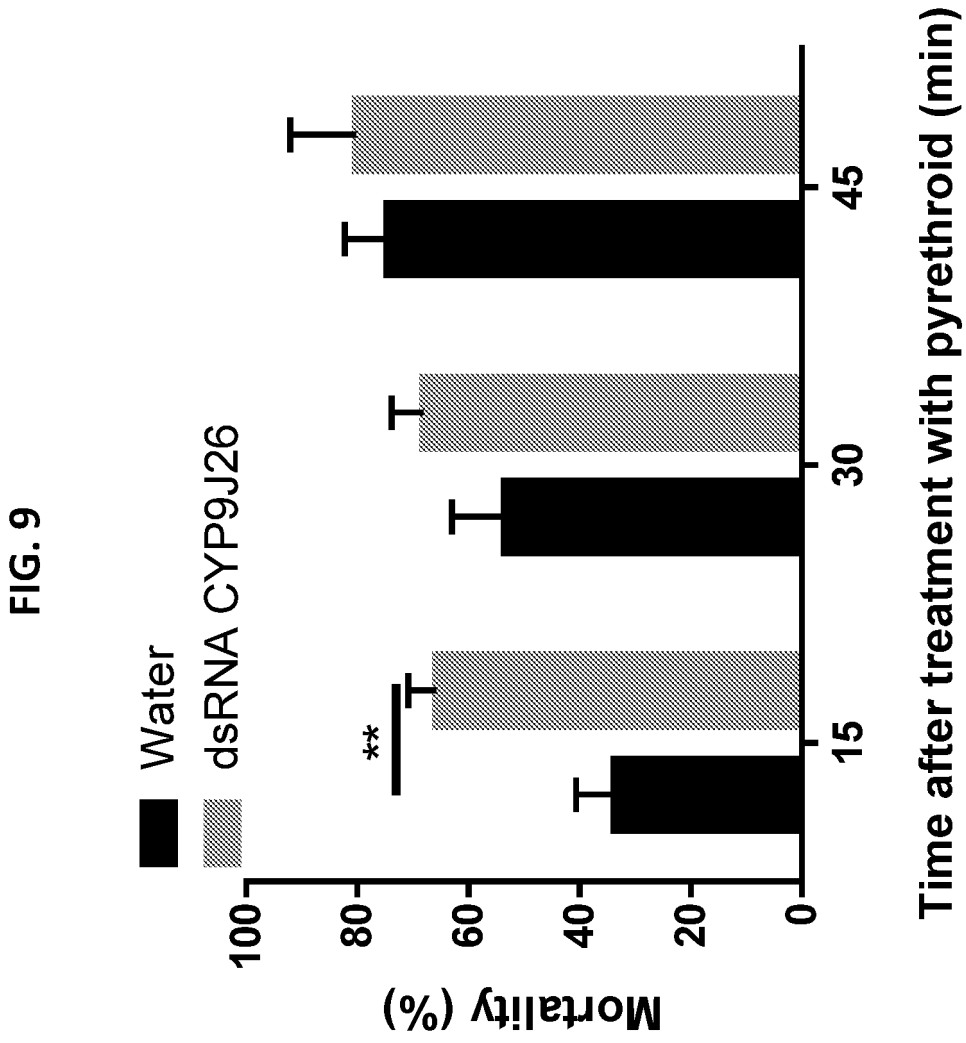

Water
dsRNA CYP9J26
**
Mortality (%)
0
20
40
60
80
100
15
30
45
Time after treatment with pyrethroid (min)

FIG. 10A

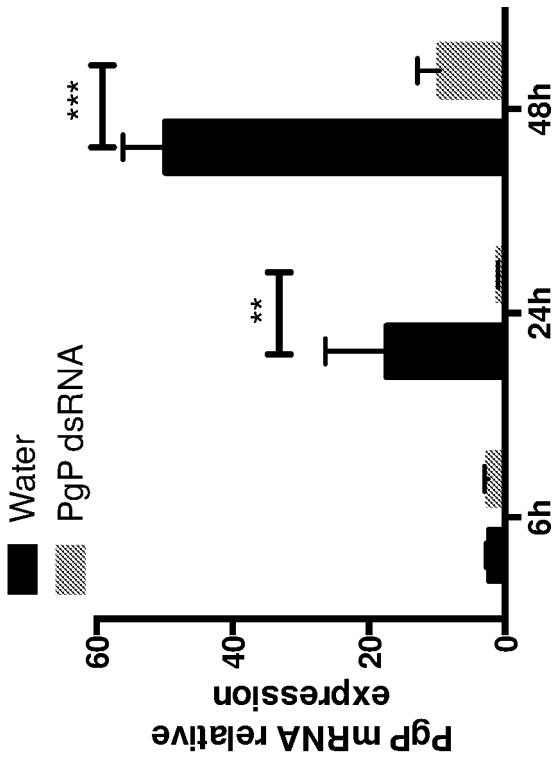


FIG. 10B

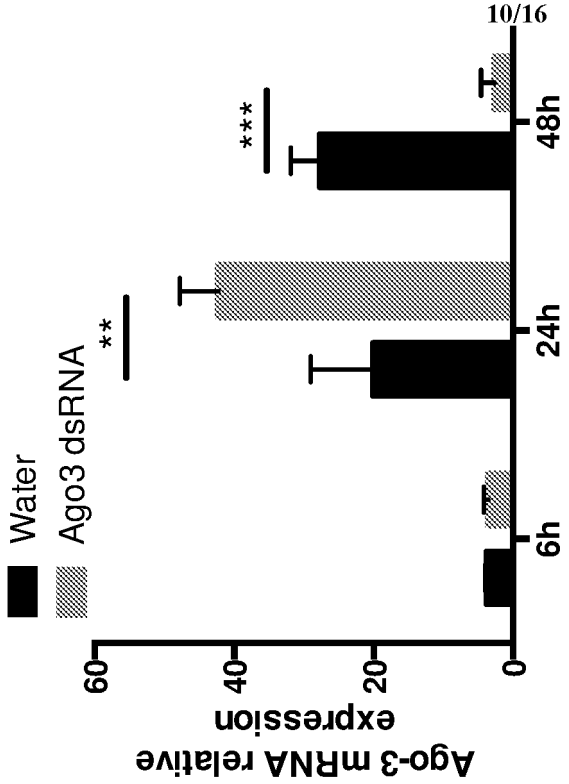


FIG. 10C

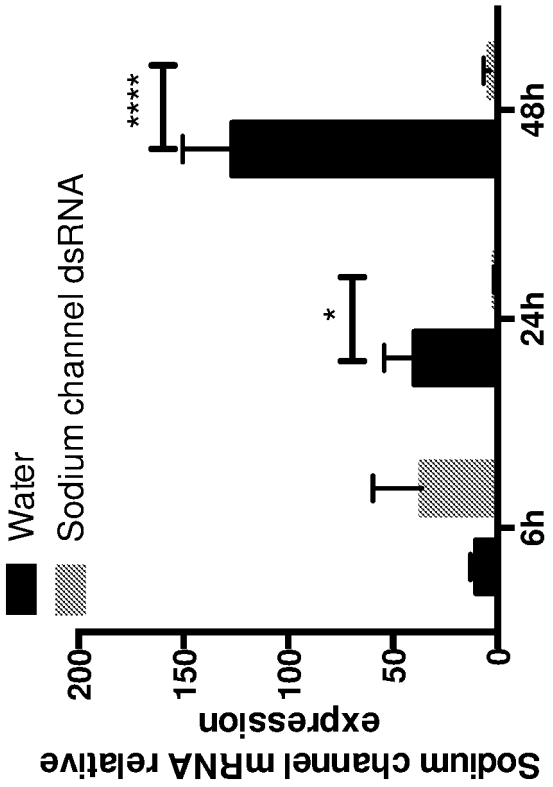


FIG. 11A

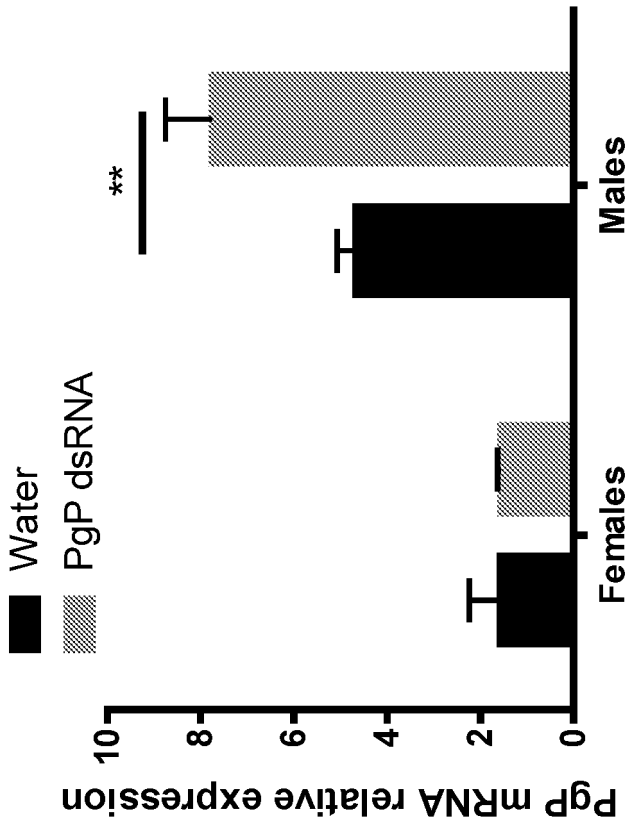


FIG. 11B

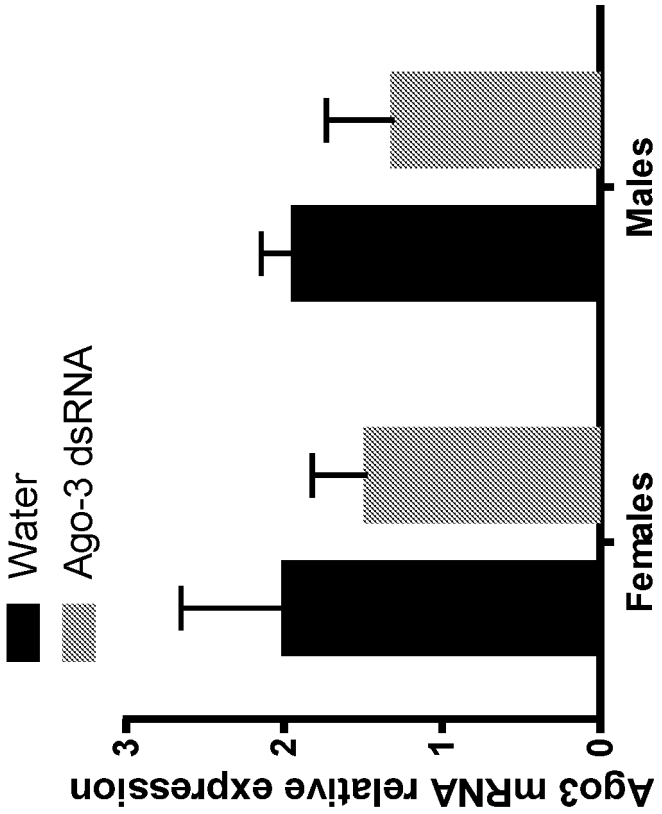


FIG. 12

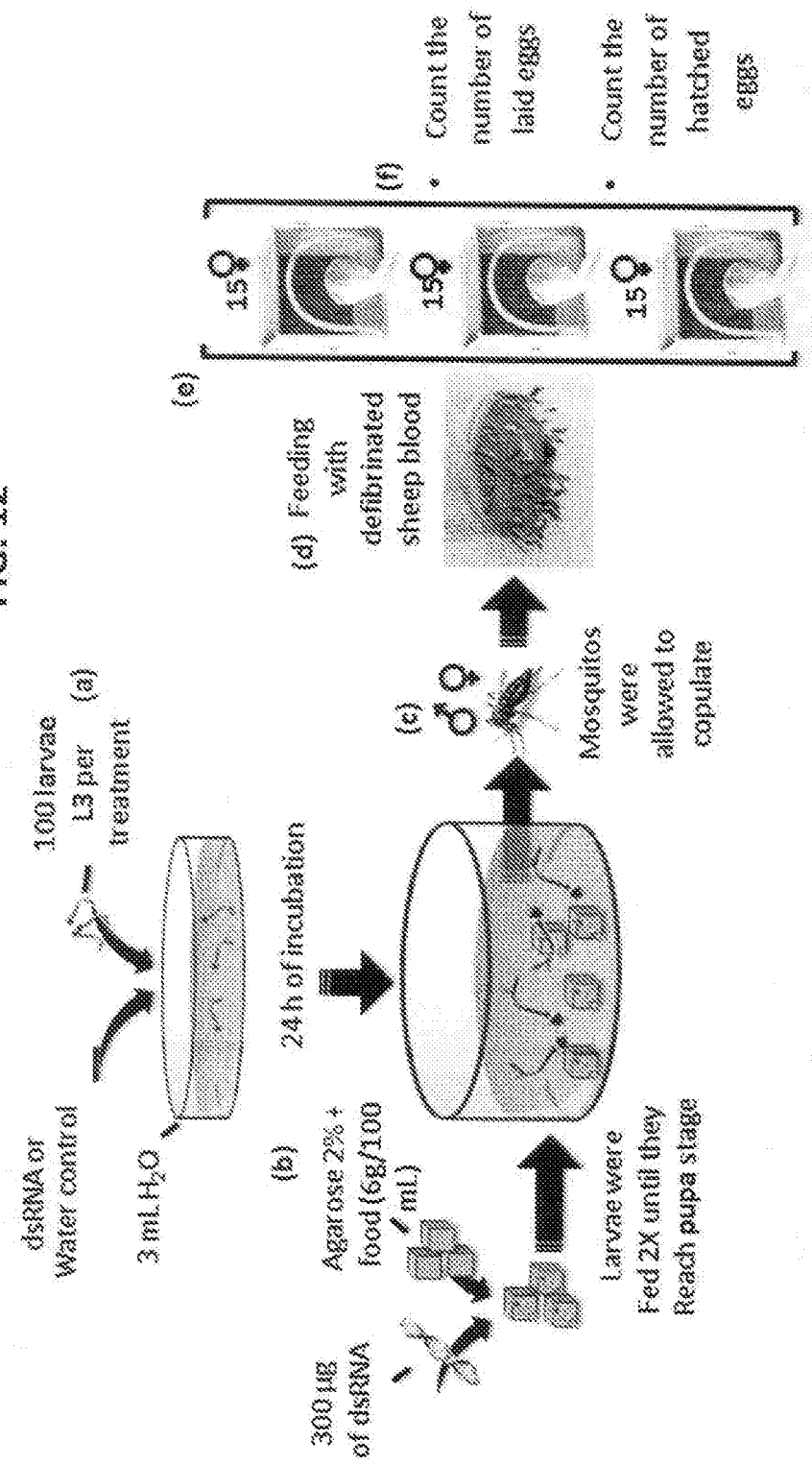

100 larvae
L3 per
treatment
(a)
dsRNA or
Water control
3 ml H_2O
(b)
24 h of incubation
Agarose 2% +
food (6g/100
mL)
300 ng
of dsRNA
Larvae were
Fed 2X until they
Reach pupa stage
(c)
Mosquitos
were
allowed to
copulate
(d) Feeding
with
defibrinated
sheep blood
(e)
15♀
15♀
15♀
(f)
Count the
number of
laid eggs
Count the
number of
hatched
eggs

FIG. 13A

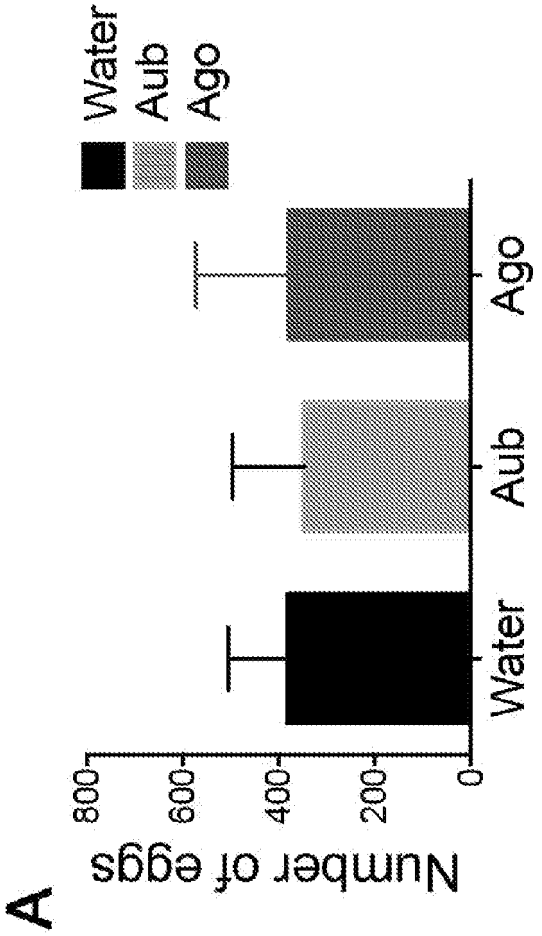


FIG. 13B

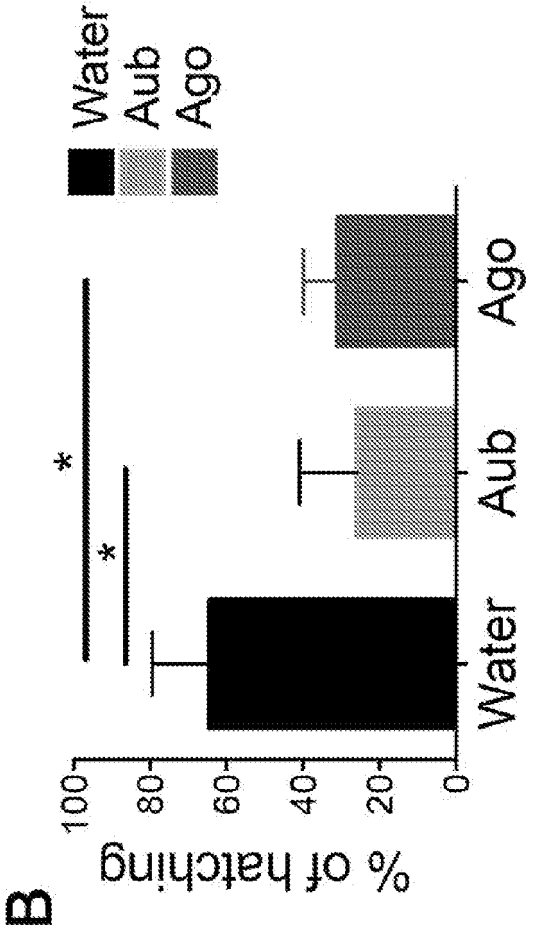


FIG. 14A

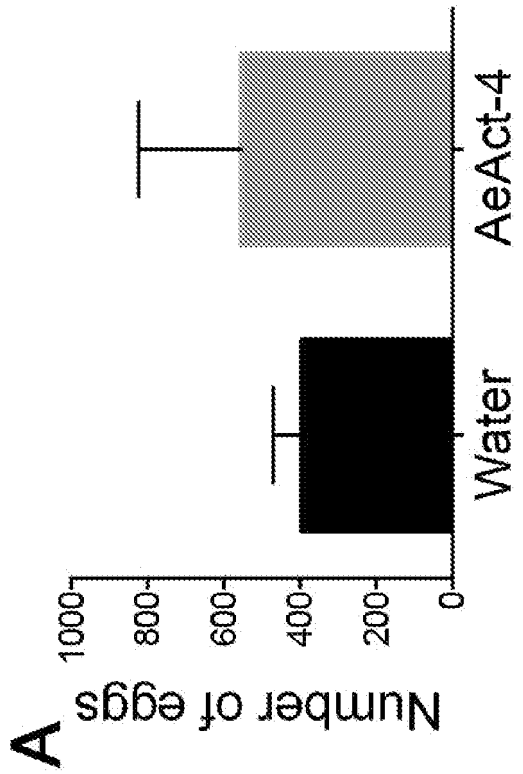


FIG. 14B

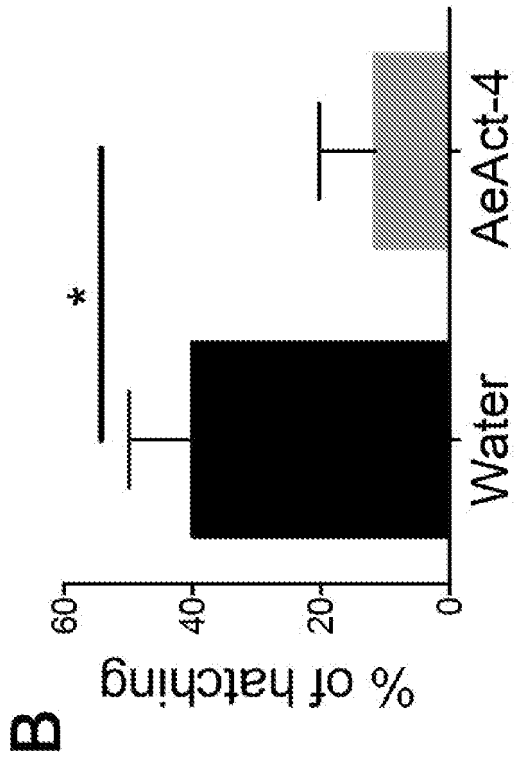


FIG. 15B

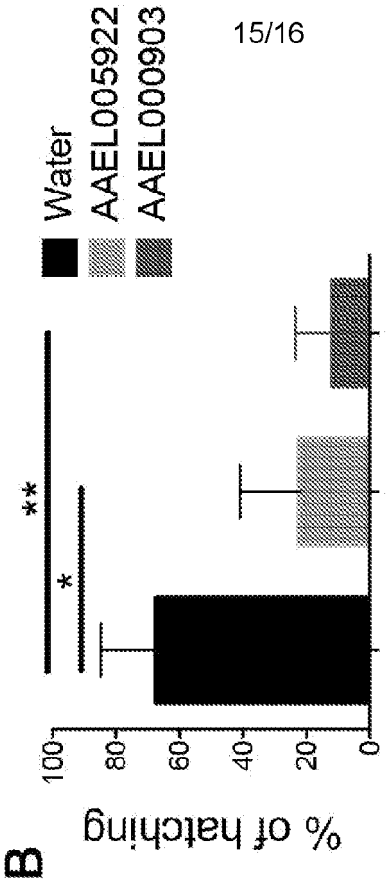


FIG. 15A

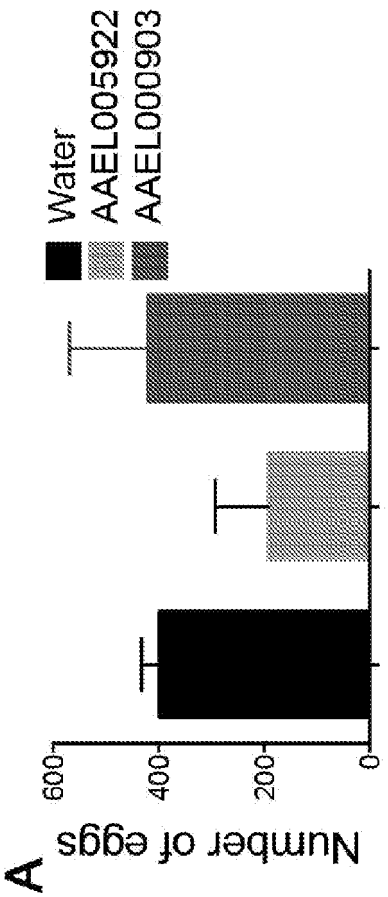


FIG. 16A

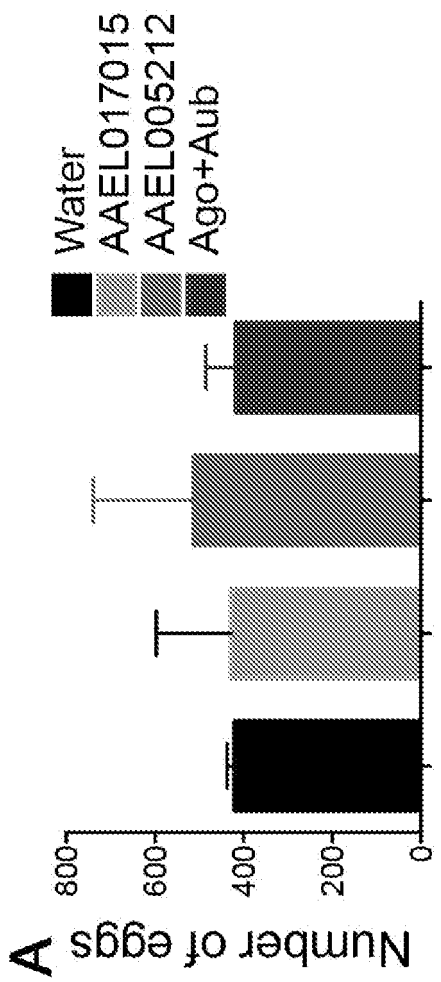


FIG. 16B

